

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|--------|---|---|------------------|---------|------------------|
| L1 | 8846 | ((568/665) or (568/669) or (568/655) or (568/656) or (526/247) or (526/318) or (430/270.1)).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2006/08/22 16:30 |
| L2 | 66665 | vinyl near2 ether | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/08/22 16:31 |
| L3 | 2425 | I1 and I2 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/08/22 16:31 |
| L4 | 881136 | cyclopentane or cyclohexane or norbornene or phenyl or benzene or tricyclodecane | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/08/22 16:33 |
| L5 | 1902 | I3 and I4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/08/22 16:33 |
| L6 | 266277 | fluorine | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/08/22 16:33 |
| L7 | 1258 | I5 and I6 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/08/22 16:34 |
| L8 | 4368 | I2 same I6 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/08/22 16:34 |
| L9 | 196 | I7 and I8 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/08/22 16:35 |

EAST Search History

| | | | | | | |
|-----|--------|---|---|----|----|------------------|
| L10 | 14490 | resist near2 composition | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/08/22 16:35 |
| L11 | 52 | l9 and l10 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/08/22 18:07 |
| L12 | 252779 | kobayashi.in. or maeda.in. or tsujishita.in. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/08/22 18:08 |
| L13 | 313 | l2 and l6 and l12 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/08/22 18:09 |
| L14 | 109 | l8 and l13 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/08/22 18:10 |
| L15 | 20 | l10 and l14 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/08/22 18:11 |

10/533,788

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1204rxw

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 FEB 27 New STN AnaVist pricing effective March 1, 2006
NEWS 4 APR 04 STN AnaVist \$500 visualization usage credit offered
NEWS 5 MAY 10 CA/CAPLUS enhanced with 1900-1906 U.S. patent records
NEWS 6 MAY 11 KOREAPAT updates resume
NEWS 7 MAY 19 Derwent World Patents Index to be reloaded and enhanced
NEWS 8 MAY 30 IPC 8 Rolled-up Core codes added to CA/CAPLUS and
USPATFULL/USPAT2
NEWS 9 MAY 30 The F-Term thesaurus is now available in CA/CAPLUS
NEWS 10 JUN 02 The first reclassification of IPC codes now complete in
INPADOC
NEWS 11 JUN 26 TULSA/TULSA2 reloaded and enhanced with new search and
and display fields
NEWS 12 JUN 28 Price changes in full-text patent databases EPFULL and PCTFULL
NEWS 13 JUL 11 CHEMSAFE reloaded and enhanced
NEWS 14 JUL 14 FSTA enhanced with Japanese patents
NEWS 15 JUL 19 Coverage of Research Disclosure reinstated in DWPI
NEWS 16 AUG 09 INSPEC enhanced with 1898-1968 archive

NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8
NEWS X25 X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 23:24:09 ON 22 AUG 2006

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

10/533,788

FILE 'REGISTRY' ENTERED AT 23:24:24 ON 22 AUG 2006
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provided by InfoChem.

STRUCTURE FILE UPDATES: 21 AUG 2006 HIGHEST RN 903048-34-0
DICTIONARY FILE UPDATES: 21 AUG 2006 HIGHEST RN 903048-34-0

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

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conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 970

L1 SCREEN CREATED

=> screen 1992 OR 2016 OR 2021 OR 2026 OR 1938 OR 1958 OR 1985 OR 1839

L2 SCREEN CREATED

=>

Uploading C:\Documents and Settings\rkeys\My
Documents\STNEXP4\TEMPLATE\STANDARD\10533788a.str



chain nodes :

1 2 3 10

ring nodes :

4 5 6 7 8 9

chain bonds :

1-2 2-3 3-4

ring bonds :

4-5 4-9 5-6 6-7 7-8 8-9

10/533,788

exact/norm bonds :

2-3 3-4

exact bonds :

1-2 4-5 4-9 5-6 6-7 7-8 8-9

isolated ring systems :

containing 4 :

Match level :

1:CLASS 2:CLASS 3:CLASS 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
11:CLASS

L3 STRUCTURE UPLOADED

=> que L3 AND L1 NOT L2

L4 QUE L3 AND L1 NOT L2

=> d

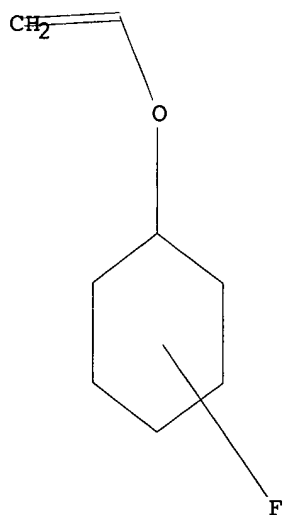
L4 HAS NO ANSWERS

L1 SCR 970

L2 SCR 1992 OR 2016 OR 2021 OR 2026 OR 1938 OR 1958 OR 1985 O

R 1839

L3 STR



Structure attributes must be viewed using STN Express query preparation.

L4 QUE L3 AND L1 NOT L2

=> s 14

SAMPLE SEARCH INITIATED 23:24:48 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 16 TO ITERATE

100.0% PROCESSED 16 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 80 TO 560

PROJECTED ANSWERS: 0 TO 0

10/533,788

L5 0 SEA SSS SAM L3 AND L1 NOT L2

=> s 14 ful
FULL SEARCH INITIATED 23:24:55 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 423 TO ITERATE

100.0% PROCESSED 423 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L6 0 SEA SSS FUL L3 AND L1 NOT L2

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

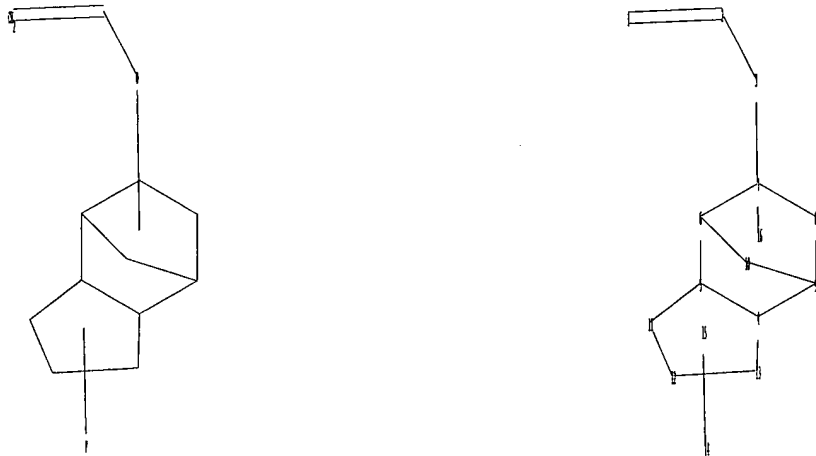
=> screen 970

L7 SCREEN CREATED

=> screen 1992 OR 2016 OR 2021 OR 2026 OR 1938 OR 1958 OR 1985

L8 SCREEN CREATED

=>
Uploading C:\Documents and Settings\rkeys\My
Documents\STNEXP4\TEMPLATE\STANDARD\10533788b.str



chain nodes :
1 2 3 14
ring nodes :
4 5 6 7 8 9 10 11 12 13
chain bonds :
1-2 2-3
ring bonds :
4-5 4-9 4-13 5-6 5-11 6-7 6-10 7-8 8-9 9-10 11-12 12-13
exact/norm bonds :
2-3
exact bonds :
1-2 4-5 4-9 4-13 5-6 5-11 6-7 6-10 7-8 8-9 9-10 11-12 12-13
isolated ring systems :
containing 4 :

Match level :

10/533,788

1:CLASS 2:CLASS 3:CLASS 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
11:Atom 12:Atom 13:Atom 14:CLASS 15:CLASS 16:CLASS

L9 STRUCTURE UPLOADED

=> que L9 AND L7 NOT L8

L10 QUE L9 AND L7 NOT L8

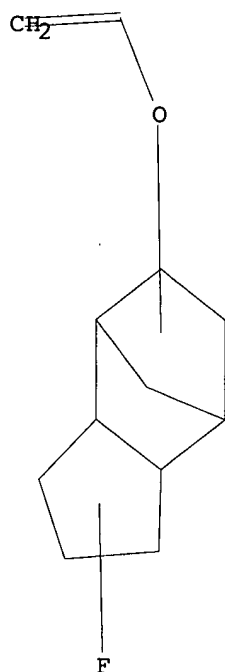
=> d

L10 HAS NO ANSWERS

L7 SCR 970

L8 SCR 1992 OR 2016 OR 2021 OR 2026 OR 1938 OR 1958 OR 1985

L9 STR



Structure attributes must be viewed using STN Express query preparation.

L10 QUE L9 AND L7 NOT L8

=> s l10

SAMPLE SEARCH INITIATED 23:26:02 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 14 TO ITERATE

100.0% PROCESSED 14 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 56 TO 504

PROJECTED ANSWERS: 1 TO 80

L11 1 SEA SSS SAM L9 AND L7 NOT L8

10/533,788

=> s 110 ful

FULL SEARCH INITIATED 23:26:08 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 315 TO ITERATE

100.0% PROCESSED 315 ITERATIONS

8 ANSWERS

SEARCH TIME: 00.00.01

L12 8 SEA SSS FUL L9 AND L7 NOT L8

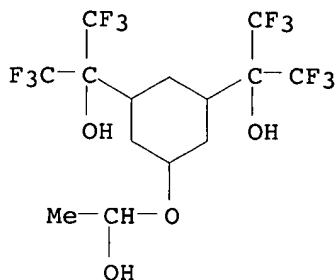
=> d scan

L12 8 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN 2-Propenoic acid, 2-(trifluoromethyl)-, polymer with α,α -bis(trifluoromethyl)bicyclo[2.2.1]hept-5-ene-2-ethanol, 5-(ethenyloxy)-1,1,2,2,3,3,3a,7a-octafluorooctahydro-4,7-methano-1H-indene and tetrafluoroethene, 1-[[3,5-bis[2,2,2-trifluoro-1-hydroxy-1-(trifluoromethyl)ethyl]cyclohexyl]oxy]ethyl ester (9CI)

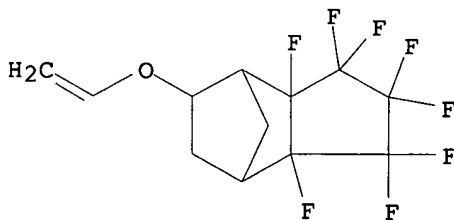
MF C14 H16 F12 O4 . x (C12 H10 F8 O . C11 H12 F6 O . C4 H3 F3 O2 . C2 F4)x

CM 1

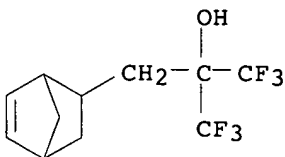


CM 2

CM 3

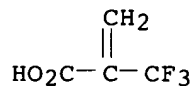


CM 4

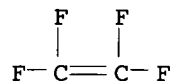


10/533,788

CM 5



CM 6



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

334.32

334.53

FILE 'CAPLUS' ENTERED AT 23:26:27 ON 22 AUG 2006

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FILE COVERS 1907 - 22 Aug 2006 VOL 145 ISS 9

FILE LAST UPDATED: 21 Aug 2006 (20060821/ED)

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=> d his

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FILE 'REGISTRY' ENTERED AT 23:24:24 ON 22 AUG 2006

| | |
|----|---|
| L1 | SCREEN 970 |
| L2 | SCREEN 1992 OR 2016 OR 2021 OR 2026 OR 1938 OR 1958 OR 19 |
| L3 | STRUCTURE UPLOADED |
| L4 | QUE L3 AND L1 NOT L2 |
| L5 | 0 S L4 |
| L6 | 0 S L4 FUL |
| L7 | SCREEN 970 |
| L8 | SCREEN 1992 OR 2016 OR 2021 OR 2026 OR 1938 OR 1958 OR 19 |
| L9 | STRUCTURE UPLOADED |

10/533,788

L10 QUE L9 AND L7 NOT L8
L11 1 S L10
L12 8 S L10 FUL

FILE 'CAPLUS' ENTERED AT 23:26:27 ON 22 AUG 2006

=> s l12

L13 2 L12

=> dup rem l13

PROCESSING COMPLETED FOR L13

L14 2 DUP REM L13 (0 DUPLICATES REMOVED)

=> d 1-2 bib fhitr

L14 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:412905 CAPLUS

DN 140:424105

TI Fluorine-containing vinyl ethers, their polymers, and resist compositions
using such polymers

IN Kobayashi, Satoru; Maeda, Kazuhiko; Tsujishita, Tooru

PA Central Glass Company, Limited, Japan

SO PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|-----------------|------|----------|-----------------|----------|
| PI | WO 2004041762 | A1 | 20040521 | WO 2003-JP13924 | 20031030 |
| | W: KR, US | | | | |
| | JP 2004155680 | A2 | 20040603 | JP 2002-320871 | 20021105 |
| | JP 2004231815 | A2 | 20040819 | JP 2003-22925 | 20030131 |
| | US 2006074263 | A1 | 20060406 | US 2005-533788 | 20050504 |
| PRAI | JP 2002-320871 | A | 20021105 | | |
| | JP 2003-22925 | A | 20030131 | | |
| | WO 2003-JP13924 | W | 20031030 | | |

OS MARPAT 140:424105

IT 691870-38-9P

RL: IMF (Industrial manufacture); PREP (Preparation)

(fluorine-containing vinyl ethers, their polymers, and resist comps. using
such polymers)

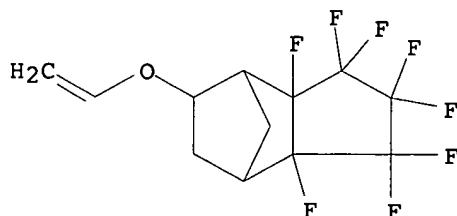
RN 691870-38-9 CAPLUS

CN 4,7-Methano-1H-indene, 5-(ethenyloxy)-1,1,2,2,3,3,3a,7a-
octafluorooctahydro-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 691870-36-7

CMF C12 H10 F8 O



10/533,788

L14 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:758843 CAPLUS

DN 141:285804

TI Fluorine compounds bearing acid-labile groups, their manufacture, and photoresists, and pattern forming method using the photoresists

IN Yamaoka, Tsugio; Maeda, Kazuhiko

PA Central Glass Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 21 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---------------|------|----------|-----------------|----------|
| PI | JP 2004256562 | A2 | 20040916 | JP 2003-45329 | 20030224 |
| PRAI | JP 2003-45329 | | 20030224 | | |
| IT | 754211-83-1P | | | | |

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(manufacture of fluorine compds. bearing acid-labile groups and showing good etching resistance for vacuum-UV photoresists)

RN 754211-83-1 CAPLUS

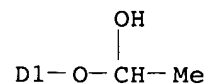
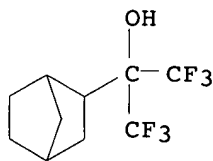
CN 2-Propenoic acid, 2-(trifluoromethyl)-, polymer with 5-(ethenyloxy)-1,1,2,2,3,3,3a,7a-octafluorooctahydro-4,7-methano-1H-indene, 5-(ethenyloxy)- $\alpha,\alpha,\alpha',\alpha'$ -tetrakis(trifluoromethyl)-1,3-cyclohexanedimethanol and 5(or 6)-[3,3,3-trifluoro-2-hydroxy-2-(trifluoromethyl)propyl]bicyclo[2.2.1]hept-2-yl 2-(trifluoromethyl)-2-propenoate, 1-[[5(or 6)-[2,2,2-trifluoro-1-hydroxy-1-(trifluoromethyl)ethyl]bicyclo[2.2.1]hept-2-yl]oxy]ethyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 754211-82-0

CMF C12 H16 F6 O3

CCI IDS



CM 2

CRN 754211-81-9

CMF (C15 H15 F9 O3 . C14 H14 F12 O3 . C12 H10 F8 O . C4 H3 F3 O2)x

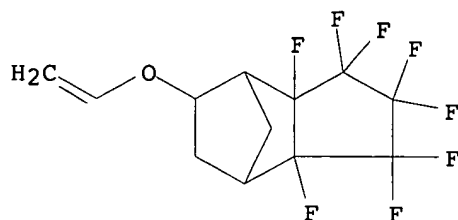
CCI PMS

CM 3

CRN 691870-36-7

CMF C12 H10 F8 O

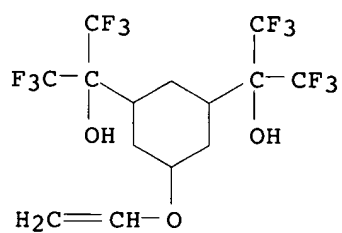
10/533,788



CM 4

CRN 691410-53-4

CMF C14 H14 F12 O3

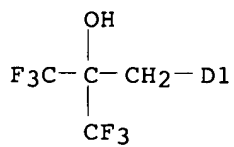
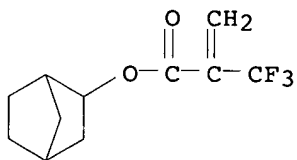


CM 5

CRN 585571-44-4

CMF C15 H15 F9 O3

CCI IDS

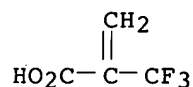


CM 6

CRN 381-98-6

CMF C4 H3 F3 O2

10/533,788



=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

7.94

342.47

FILE 'REGISTRY' ENTERED AT 23:27:48 ON 22 AUG 2006

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STRUCTURE FILE UPDATES: 21 AUG 2006 HIGHEST RN 903048-34-0

DICTIONARY FILE UPDATES: 21 AUG 2006 HIGHEST RN 903048-34-0

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Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 970

L15 SCREEN CREATED

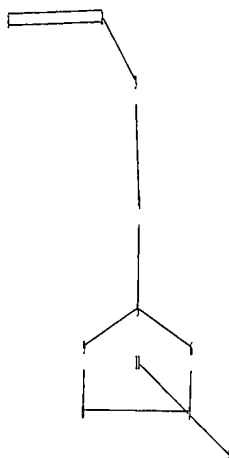
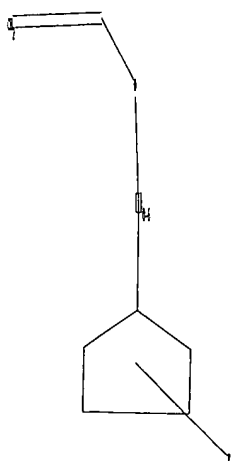
=> screen 1992 OR 2016 OR 2021 OR 2026 OR 1938 OR 1958 OR 1985 OR 1839

L16 SCREEN CREATED

=>

Uploading C:\Documents and Settings\rkeys\My Documents\STNEXP4\TEMPLATE\STANDARD\10533788c.str

10/533,788



chain nodes :
1 2 3 4 10
ring nodes :
5 6 7 8 9
chain bonds :
1-2 2-3 3-4 4-5
ring bonds :
5-6 5-9 6-7 7-8 8-9
exact/norm bonds :
2-3 3-4
exact bonds :
1-2 4-5 5-6 5-9 6-7 7-8 8-9
isolated ring systems :
containing 5 :

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
10:CLASS 11:CLASS

L17 STRUCTURE UPLOADED

=> que L17 AND L15 NOT L16

L18 QUE L17 AND L15 NOT L16

=> d

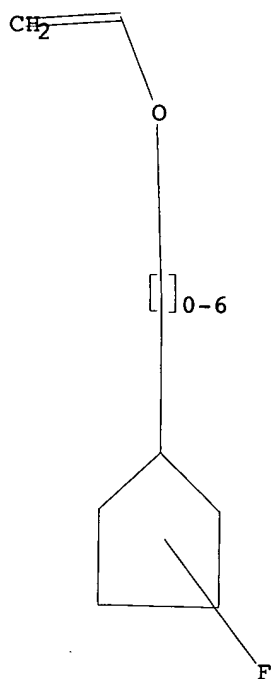
L18 HAS NO ANSWERS

L15 SCR 970

L16 SCR 1992 OR 2016 OR 2021 OR 2026 OR 1938 OR 1958 OR 1985 O
R 1839

L17 STR

10/533,788



Structure attributes must be viewed using STN Express query preparation.
L18 QUE L17 AND L15 NOT L16

=> s l18

SAMPLE SEARCH INITIATED 23:28:14 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 4 TO ITERATE

100.0% PROCESSED 4 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 4 TO 200
PROJECTED ANSWERS: 0 TO 0

L19 0 SEA SSS SAM L17 AND L15 NOT L16

=> s l18 ful

FULL SEARCH INITIATED 23:28:19 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 80 TO ITERATE

100.0% PROCESSED 80 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L20 0 SEA SSS FUL L17 AND L15 NOT L16

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

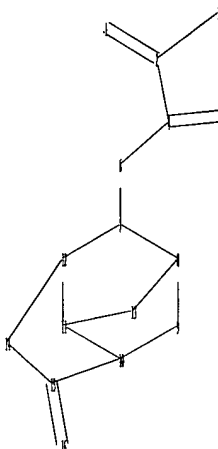
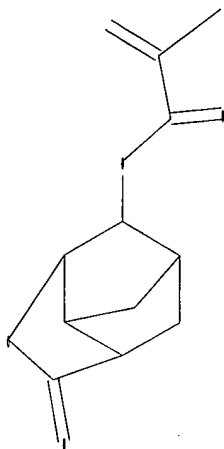
=> screen 1992 OR 2016 OR 2021 OR 2026 OR 1938 OR 1958 OR 1985

L21 SCREEN CREATED

10/533,788

=>

Uploading C:\Documents and Settings\rkeys\My
Documents\STNEXP4\TEMPLATE\STANDARD\10533788d.str



chain nodes :

1 2 3 4 5 6 16

ring nodes :

7 8 9 10 11 12 13 14 15

chain bonds :

1-2 2-3 2-4 4-5 4-6 6-7 15-16

ring bonds :

7-8 7-12 8-9 8-13 9-10 10-11 10-15 11-12 11-13 12-14 14-15

exact/norm bonds :

4-5 4-6 6-7 15-16

exact bonds :

1-2 2-3 2-4 7-8 7-12 8-9 8-13 9-10 10-11 10-15 11-12 11-13 12-14 14-15

isolated ring systems :

containing 7 :

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:Atom 8:Atom 9:Atom
10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:CLASS

L22 STRUCTURE UPLOADED

=> que L22 NOT L21

L23 QUE L22 NOT L21

=> s 123

SAMPLE SEARCH INITIATED 23:28:57 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 61 TO ITERATE

100.0% PROCESSED 61 ITERATIONS

31 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 752 TO 1688

PROJECTED ANSWERS: 286 TO 954

10/533,788

L24 31 SEA SSS SAM L22 NOT L21

=> s l23 ful

FULL SEARCH INITIATED 23:29:30 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1115 TO ITERATE

100.0% PROCESSED 1115 ITERATIONS

641 ANSWERS

SEARCH TIME: 00.00.01

L25 641 SEA SSS FUL L22 NOT L21

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

334.32

676.79

FILE 'CAPLUS' ENTERED AT 23:29:38 ON 22 AUG 2006

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FILE COVERS 1907 - 22 Aug 2006 VOL 145 ISS 9

FILE LAST UPDATED: 21 Aug 2006 (20060821/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s l25 and (fluor? (10a) vinyl ether)

388 L25

1153580 FLUOR?

406157 VINYL

482524 ETHER

20284 VINYL ETHER

(VINYL(W)ETHER)

2178 FLUOR? (10A) VINYL ETHER

L26 2 L25 AND (FLUOR? (10A) VINYL ETHER)

=> d 1-2 ti

L26 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

TI Fluorine-containing vinyl ethers, their polymers, and resist compositions using such polymers

L26 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

TI Fluoro-functional acid generators and acid generator-containing radiation-sensitive resin compositions suitable for lithography

=> d 2 bib fhitr

L26 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:4859 CAPLUS

DN 138:56869

TI Fluoro-functional acid generators and acid generator-containing
radiation-sensitive resin compositions suitable for lithographyIN Ebata, Satoshi; Yoneda, Eiji; Nagai, Tomoki; Toneri, Tatsuya; Wang, Yong;
Iwasawa, Haruo; Nishimura, Yukio

PA JSR Corporation, Japan

SO Eur. Pat. Appl., 100 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|------|----------|-----------------|----------|
| PI | EP 1270553 | A2 | 20030102 | EP 2002-14416 | 20020628 |
| | EP 1270553 | A3 | 20040421 | | |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR | | | | |
| | JP 2003173027 | A2 | 20030620 | JP 2001-371311 | 20011205 |
| | US 2003113658 | A1 | 20030619 | US 2002-183441 | 20020628 |
| | US 6908722 | B2 | 20050621 | | |
| | CN 1432873 | A | 20030730 | CN 2002-160643 | 20020628 |
| | JP 2004002252 | A2 | 20040108 | JP 2002-189133 | 20020628 |
| | US 2003170561 | A1 | 20030911 | US 2002-309017 | 20021204 |
| | JP 2006133803 | A2 | 20060525 | JP 2006-5710 | 20060113 |
| PRAI | JP 2001-200154 | A | 20010629 | | |
| | JP 2001-371311 | A | 20011205 | | |
| | JP 2002-81235 | A | 20020322 | | |

IT 340964-24-1P

RL: CPS (Chemical process); IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PRP (Properties); PYP (Physical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses) (acid-cleavable group-containing resin; fluoro-functional acid generators and acid generator-containing radiation-sensitive resin compns. suitable for lithog.)

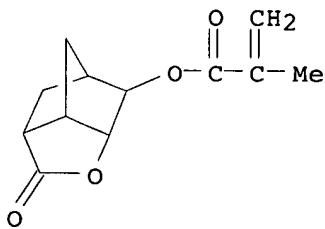
RN 340964-24-1 CAPLUS

CN 2-Propenoic acid, 2-methyl-, hexahydro-2-oxo-3,5-methano-2H-cyclopenta[b]furan-6-yl ester, polymer with 2-methyltricyclo[3.3.1.1^{3,7}]dec-2-yl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 254900-07-7

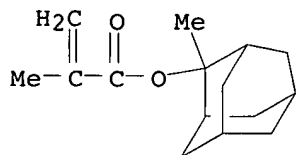
CMF C12 H14 O4



CM 2

10/533,788

CRN 177080-67-0
CMF C15 H22 O2



=>

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

11.86

688.65

FILE 'REGISTRY' ENTERED AT 23:31:44 ON 22 AUG 2006

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STRUCTURE FILE UPDATES: 21 AUG 2006 HIGHEST RN 903048-34-0

DICTIONARY FILE UPDATES: 21 AUG 2006 HIGHEST RN 903048-34-0

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

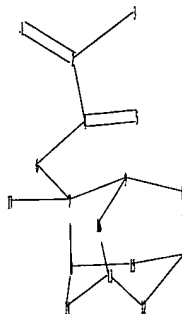
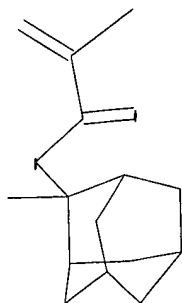
=> screen 1992 OR 2016 OR 2021 OR 2026 OR 1938 OR 1958 OR 1985

L27 SCREEN CREATED

=>

Uploading C:\Documents and Settings\rkeys\My
Documents\STNEXP4\TEMPLATE\STANDARD\10533788e.str

10/533,788



chain nodes :

1 2 3 4 5 6 17

ring nodes :

7 8 9 10 11 12 13 14 15 16

chain bonds :

1-2 2-3 2-4 4-5 4-6 6-7 7-17

ring bonds :

7-8 7-9 8-14 8-15 9-10 9-16 10-11 11-12 11-15 12-13 13-14 13-16

exact/norm bonds :

4-5 4-6 6-7 7-8 7-9 8-14 8-15 9-10 9-16 10-11 11-12 11-15 12-13 13-14
13-16

exact bonds :

1-2 2-3 2-4 7-17

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:Atom 8:Atom 9:Atom
10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS

L28 STRUCTURE UPLOADED

=> que L28 NOT L27

L29 QUE L28 NOT L27

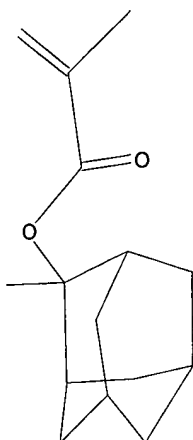
=> d

L29 HAS NO ANSWERS

L27 SCR 1992 OR 2016 OR 2021 OR 2026 OR 1938 OR 1958 OR 1985

L28 STR

10/533,788



Structure attributes must be viewed using STN Express query preparation.
L29 QUE L28 NOT L27

=> s l29

SAMPLE SEARCH INITIATED 23:32:12 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 181 TO ITERATE

100.0% PROCESSED 181 ITERATIONS 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 2813 TO 4427
PROJECTED ANSWERS: 1114 TO 2206

L30 50 SEA SSS SAM L28 NOT L27

=> s l29 ful

FULL SEARCH INITIATED 23:32:18 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 3088 TO ITERATE

100.0% PROCESSED 3088 ITERATIONS 1469 ANSWERS
SEARCH TIME: 00.00.01

L31 1469 SEA SSS FUL L28 NOT L27

=> file caplus

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 166.94 | 855.59 |

FILE 'CAPLUS' ENTERED AT 23:32:25 ON 22 AUG 2006
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10/533,788

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FILE COVERS 1907 - 22 Aug 2006 VOL 145 ISS 9
FILE LAST UPDATED: 21 Aug 2006 (20060821/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

```
=> s l31 and (fluor? (10a) vinyl ether)
      1037 L31
      1153580 FLUOR?
      406157 VINYL
      482524 ETHER
      20284 VINYL ETHER
            (VINYL(W)ETHER)
      2178 FLUOR? (10A) VINYL ETHER
L32      9 L31 AND (FLUOR? (10A) VINYL ETHER)
```

=> d 1-9 ti

```
L32 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
TI Positive-working photoresist composition containing alkali-soluble
fluorine-containing polymer

L32 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
TI The chemically amplified photoresist composition and the pattern formation
method

L32 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
TI Positive resist composition

L32 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
TI Fluorine compounds bearing acid-labile groups, their manufacture, and
photoresists, and pattern forming method using the photoresists

L32 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
TI Chemically amplified resist composition, its manufacture, and patterning
method

L32 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
TI Fluorine-containing vinyl ethers, their polymers, and resist compositions
using such polymers

L32 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
TI Positive resist compositions using fluorine-containing copolymers

L32 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
TI Fluoro-functional acid generators and acid generator-containing
radiation-sensitive resin compositions suitable for lithography

L32 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
TI Photoresist compositions comprising fluorinated phenolic polymers
```

```
=> s l32 and 1700-2003/py
      23862367 1700-2003/PY
L33      3 L32 AND 1700-2003/PY
```

10/533,788

=> d 1-3 bib fhitr

L33 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:582472 CAPLUS

DN 139:140963

TI Positive resist compositions using fluorine-containing copolymers

IN Maeda, Kazuhiko; Komoritani, Haruhiko; Yamanaka, Kazuhiro

PA Central Glass Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---------------|------|----------|-----------------|--------------|
| PI | JP 2003212915 | A2 | 20030730 | JP 2002-10909 | 20020118 <-- |
| PRAI | JP 2002-10909 | | 20020118 | | |
| IT | 568587-23-5P | | | | |

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(pos. resist compns. using fluoroalkyl acrylate-vinyl ether copolymers and acid generators for high transparency)

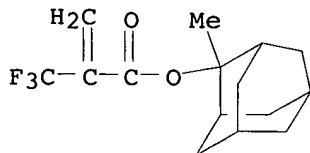
RN 568587-23-5 CAPLUS

CN 2-Propenoic acid, 2-(trifluoromethyl)-, 2-methyltricyclo[3.3.1.1^{3,7}]dec-2-yl ester, polymer with 1-(ethenyloxy)-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctane (9CI) (CA INDEX NAME)

CM 1

CRN 188739-86-8

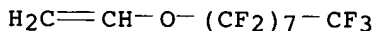
CMF C15 H19 F3 O2



CM 2

CRN 60321-80-4

CMF C10 H3 F17 O



L33 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:4859 CAPLUS

DN 138:56869

TI Fluoro-functional acid generators and acid generator-containing radiation-sensitive resin compositions suitable for lithography

IN Ebata, Satoshi; Yoneda, Eiji; Nagai, Tomoki; Toneri, Tatsuya; Wang, Yong; Iwasawa, Haruo; Nishimura, Yukio

PA JSR Corporation, Japan

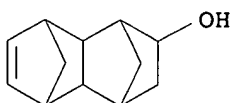
SO Eur. Pat. Appl., 100 pp.

CODEN: EPXXDW

DT Patent
LA English
FAN.CNT 1

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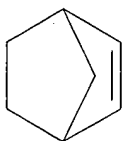
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CMF C12 H16 O



CM 3

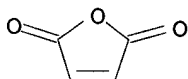
10/533,788

CRN 498-66-8
CMF C7 H10



CM 4

CRN 108-31-6
CMF C4 H2 O3



L33 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2002:185456 CAPLUS
DN 136:254545
TI Photoresist compositions comprising fluorinated phenolic polymers
IN Klauck-Jacobs, Axel; Zampini, Anthony; Cho, Sungseo; Yamada, Shintaro
PA Shipley Company, L.L.C., USA
SO PCT Int. Appl., 42 pp.

CODEN: PIXXD2

DT Patent

LA English

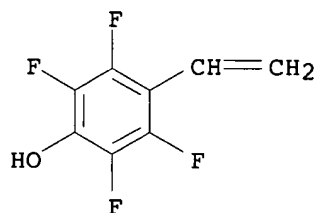
FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|--------------|
| PI | WO 2002021212 | A2 | 20020314 | WO 2001-US28184 | 20010908 <-- |
| | WO 2002021212 | A3 | 20020822 | | |
| | W: | | | | |
| | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, | | | | |
| | CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, | | | | |
| | HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, | | | | |
| | LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, | | | | |
| | SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, | | | | |
| | ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| | RW: | | | | |
| | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, | | | | |
| | DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, | | | | |
| | BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| | AU 2001087147 | A5 | 20020322 | AU 2001-87147 | 20010908 <-- |
| | US 2002058198 | A1 | 20020516 | US 2001-948521 | 20010908 <-- |
| | US 2002058199 | A1 | 20020516 | US 2001-948903 | 20010908 <-- |
| PRAI | US 2000-231274P | P | 20000908 | | |
| | US 2000-253118P | P | 20001127 | | |
| | WO 2001-US28184 | W | 20010908 | | |
| IT | 403814-70-0P | | | | |
| | RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) | | | | |
| | (photoresist compns. comprising fluorinated phenolic polymers) | | | | |
| RN | 403814-70-0 CAPLUS | | | | |
| CN | 2-Propenoic acid, 2-methyl-, 2-methyltricyclo[3.3.1.1 ^{3,7}]dec-2-yl ester, | | | | |
| | polymer with 4-ethenyl-2,3,5,6-tetrafluorophenol (9CI) (CA INDEX NAME) | | | | |

CM 1

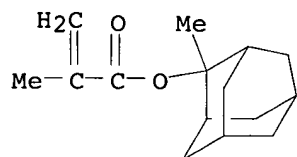
10/533,788

CRN 385422-30-0
CMF C8 H4 F4 O



CM 2

CRN 177080-67-0
CMF C15 H22 O2



=> log hold
COST IN U.S. DOLLARS
FULL ESTIMATED COST

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
| 22.68 | 878.27 |

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 23:34:23 ON 22 AUG 2006